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2-1-2010

Annotated Bibliography of Ethical Issues in Physics: Data Management

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Recommended Citation

Thomsen, Marshall, "Annotated Bibliography of Ethical Issues in Physics: Data Management" (2010). *Ethics in Science and Engineering National Clearinghouse*. 377.

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Ethical Issues in Physics
Bibliography assembled by
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February 2012
Data Management

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Science and Engineering Ethics

Volume 16, Number 4 / December 2010, pp. 639-667

Manipulation of Scientific Digital Images

Douglas W. Cromey

The author proposes twelve guidelines for the proper use of digital images in scholarly publications, and provides a rationale for each of the guidelines.

Science and Engineering Ethics

Volume 16, Number 4 / December 2010, pp. 669-673

Generalizing on Best Practices in Image Processing: A Model for Promoting Research Integrity

Commentary on: Avoiding Twisted Pixels: Ethical Guidelines for the Appropriate Use and Manipulation of Scientific Digital Images

Dale J. Benos and Sara H. Vollmer

New tools make it easier now to detect image manipulation.

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Science and Engineering Ethics

Volume 16, Number 4 / December 2010, pp. 783-799

The Essential Nature of Sharing in Science

Beth A. Fischer^{1, 2}  and Michael J. Zigmond

An extensive discussion of the issues associated with sharing data, including a look at how the scientific community benefits from sharing, what data should be shared, and what barriers to sharing exist.

Science and Engineering Ethics

Volume 16, Number 4 / December 2010, pp. 801-803

Sharing Data is a Shared Responsibility

Commentary on: “The Essential Nature of Sharing in Science”

Joe Giffels

The author points out that sharing data can be a resource intensive process.

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Science and Engineering Ethics

Volume 15, Number 2 / June, 2009 pp. 161-167

Image Manipulation as Research Misconduct

Debra Parrish and Bridget Noonan

This brief article looks at ORI cases involving manipulation of images prior to publication.

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Physics Today -- March 2009

Volume 62, Issue 3, pp. 26-28

North Carolina institute offers to archive old astronomy data

Toni Feder

This news article raises issues about what to do with older data stored on outdated media.

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Physics Today -- September 2008

Volume 61, Issue 9, pp. 54-55

A 21st-century vision for geophysical data management

Daniel N. Baker

The tradition in geophysics is to make data as widely and freely available as possible. The author discusses changes that are needed to uphold this tradition in light of rapid technological development.

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Science and Engineering Ethics

Volume 14, Number 3 / September, 2008, pp. 323-336

Mentoring and Research Misconduct: An Analysis of Research Mentoring in Closed ORI Cases

David E. Wright, Sandra L. Titus and Jered B. Cornelison

The authors studies 45 cases of misconduct by examining records at the Office of Research Integrity. They focused on misconduct by students or post-docs and concluded that the mentors often had not set explicit standards for the students to follow.

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Science and Engineering Ethics

Volume 10, Number 4 / December, 2004, pp. 639-653

Data selection and responsible conduct: Was Millikan a fraud?

Richard C. Jennings

The author examines the question of whether or not Millikan committed fraud in his oil drop paper. Included is a review of historical standards as well as of current standards for data analysis and presentation.